

74-1120

U. S. GEOLOGICAL SURVEY
12201 Sunrise Valley Drive
Reston, Virginia, 22092

For release APRIL 22, 1974

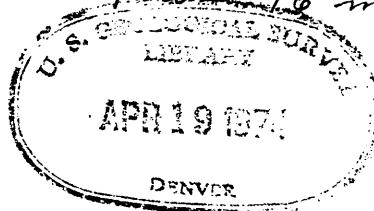
The U.S. Geological Survey is releasing the following report in open file. Copies are available for inspection in the USGS Libraries, Rm. 4A100, Sunrise Valley Dr., Reston, Va. 22092(*); Bldg. 25, Federal Center, Denver, Colo. 80225; and 345 Middlefield Rd., Menlo Park, Calif. 94025:

① Subbottom acoustic reflection profiles, Cape San Martin to Point Sal, south-central California offshore, by Holly C. Wagner. (d444) 96 p., scale 1:86,000. Material from which copy can be made at private expense is available at all three USGS libraries listed above.

25 p. seismic fan log (numbered as 50 p.)

2 track charts

1 roll 16 mm. microfilm



(*) Due to move of USGS Library from Washington, D.C., to the USGS National Headquarters in Reston, Va., the announced report will not be available to the public at this address until mid-May 1974.

Cruise George B. Kesez Carmel Bay to Pt. Sal. - Divers George B. Kesez - Divers Kesez George B. Kesez George B. Kesez

Cruise George B. Kele^z to Pt. Sal^g.

George B. Kelez - Carmel Bay to Pt. Sal^g.

Cruise George B. Keeler Carmel Bay to Pt. S.

Line No.	Date	Time	Seismic 3 sec. Sweep & Shift Rate		Uniboom 1/4 sec. sweep & shoot Rate		Seismic 3 sec. Sweep & Shoot Rate		Uniboom 1/4 sec. sweep & shoot Rate		Seismic 3 sec. Sweep & Shoot Rate			
			Apd. No.	Ki Power	Filter H/L	Roll No.	Remarks	Line No.	Time Rate	No.	Ki Power	Filter H/L	Roll No.	Remarks
133	12/9	12/4	1	60	98/25	2	Gc End Line 134 Start Line 133	125	1640	1	60	98/40	2	415 T 4.7 KTS
133	12/30	"	"	"	"	"		1645	"	"	"	"	"	
133	12/45	"	"	"	"	"		1650	"	"	"	"	"	
130	13/00	"	"	"	"	"		1655	"	"	"	"	"	
133	13/24	"	"	"	"	"		1700	"	"	"	"	"	
130	13/26	1	60	98/25	2			1705	"	"	"	"	"	
130	13/30	"	"	"	"	"		1710	"	"	"	"	"	
130	13/45	"	"	"	"	"		1715	"	"	"	"	"	
130	13/50	"	"	"	"	"		1720	"	"	"	"	"	
129	13/54	"	"	"	"	"	Port phones STbd. engine	1725	"	"	"	"	"	
133	14/00	1	60	98/25	2			1730	"	"	"	"	"	
1430								1735	"	"	"	"	"	
1500								1738	1	60	98/40	2	415 T 4.7 KTS	
129	15/04							1745	"	"	"	"	"	
126	15/08							1750	"	"	"	"	"	
1515	1							1755	"	"	"	"	"	
125	15/30							1800	"	"	"	"	"	
125	15/40	1	60	98/40	2			1805	"	"	"			
1545								1810	"	"	"	"	"	
1550								1815	"	"	"	"	"	
1600								1822						
1605								1839	1	60	98/40	3		
125	16/10	1	60	98/40	2			1945	"	"	"	"	"	
1615	"	"	"	"	"	"		1950	"	"	"	"	"	
1620	1	"	"	"	"	"		1956	"	"	"	"	"	
1625	1	"	"	"	"	"		2000	"	"	"	"	"	
1630	1	"	"	"	"	"		2005	"	"	"	"	"	
1635	"	"	"	"	"	"		2010	"	"	"	"	"	
125								2015	"	"	"	"	"	

Cruise George B. Kelez Carmel Bay to Pt. Sal										Seismic van log		Carmel Bay to Pt. Sal				
Line No.	Date	Seismic 3 sec.			Uniboom 1/4 sec.			Seismic 3 sec.			Uniboom 1/4 sec.		Course and Speed	Sweep & Shoot Rate	Sweep & Shoot Rate	
		Time	Roll No.	Ki Power	Filter H/L	Roll No.	Ki Power	Filter H/L	Time Roll No.	Ki Power	Filter H/L	Roll No.	Start time	End time		
121	2025	1	60	98/40	3	"	"	"	118	2240	/	60	98/40	3	Remarks	Speed
"	2030	"	"	"	"	"	"	"	313/2445	1	60	98/40	3	"	"	3359
"	2036	"	"	"	"	"	"	"	2250	"	"	"	"	"	"	33637
"	2040	"	"	"	"	"	"	"	2255	"	"	"	"	"	"	33637
"	2045	"	"	"	"	"	"	"	2257	"	"	"	"	"	"	33637
"	2051	"	"	"	"	"	"	"	2300	"	"	"	"	"	"	33637
"	2055	"	"	"	"	"	"	"	2305	"	"	"	"	"	"	33637
"	2100	"	"	"	"	"	"	"	2310	"	"	"	"	"	"	33637
"	2105	"	"	"	"	"	"	"	2315	"	"	"	"	"	"	33637
"	2110	"	"	"	"	"	"	"	2320	"	"	"	"	"	"	33637
"	2115	"	"	"	"	"	"	"	2325	"	"	"	"	"	"	33637
"	2120	"	"	"	"	"	"	"	2330	"	"	"	"	"	"	33637
"	2125	"	"	"	"	"	"	"	2335	"	"	"	"	"	"	33637
"	2130	"	"	"	"	"	"	"	2337	"	"	"	"	"	"	33637
"	2135	"	"	"	"	"	"	"	2340	1	60	98/40	3	"	"	33637
"	2140	"	"	"	"	"	"	"	2345	"	"	"	"	"	"	33637
"	2145	"	"	"	"	"	"	"	2350	"	"	"	"	"	"	33637
"	2150	"	"	"	"	"	"	"	2356	"	"	"	"	"	"	33637
"	2155	"	"	"	"	"	"	"	2400	"	"	"	"	"	"	33637
"	2157	"	"	"	"	"	"	"	313/2005	1	60	98/40	3	"	"	33637
"	2205	"	"	"	"	"	"	"	0215	"	"	"	"	"	"	33637
"	2210	"	"	"	"	"	"	"	0230	"	"	"	"	"	"	33637
"	2216	"	"	"	"	"	"	"	0245	"	"	"	"	"	"	33637
"	2221	"	"	"	"	"	"	"	0100	"	"	"	"	"	"	33637
"	2225	"	"	"	"	"	"	"	0115	"	"	"	"	"	"	33637
"	2230	"	"	"	"	"	"	"	0129	"	"	"	"	"	"	33637
"	2235	"	"	"	"	"	"	"	0130	"	"	"	"	"	"	33637
"	2240	"	"	"	"	"	"	"	0145	1	60	98/40	3	"	"	33637
"	2245	"	"	"	"	"	"	"	0200	"	"	"	"	"	"	33637

Seismic Van Log											
Cruise George B. Kelsez Carmel Bay to Pt. Sal.						Cruise George B. Kelsez Carmel Bay to Pt. Sal.					
Line No.	Date Time	Seismic 3 sec. Sweep & Shift Rate	Course Roll No.	Depth Fitter H/L	Remarks	Line No.	Date Time	Seismic 3 sec. Sweep & Shift Rate	Course Roll No.	Depth Fitter H/L	Remarks
113	3/4/62 15	1 60	3	78/40	Uniboom 1/4 sec. sweep & shift rate	109	0540	1	60	98/40	Down
"	0230	" "	4	"	Change pace U.B.	1	0545	"	"	"	UB back on 25/53
"	0245	" "	4	"	"	"	0550	"	"	"	"
"	0249	" "	4	"	Shot down US.	"	0555	"	"	"	"
"	0300	" "	4	"	"	"	0600	"	"	"	"
"	0315	" "	4	"	"	"	0604	"	"	"	Start line
"	0320	" "	4	"	1 Shot off US.	"	0610	"	"	"	"
"	0330	" "	4	"	"	"	0615	"	"	"	End
"	0345	" "	4	"	"	"	0620	"	"	"	"
110	0350	" "	4	"	C/1 Too deep UB shot down 4/6 KTS.	"	0625	"	"	"	248 T
"	0400	" "	4	"	"	"	0630	"	"	"	225 T
"	0410	" "	4	"	"	"	0635	"	"	"	"
110	0415	" "	4	"	"	"	0640	"	"	"	"
109	0419	1 60	4	78/40	Start wire 709 0453	"	0645	"	"	"	"
"	0425	" "	4	"	"	"	0650	"	"	"	"
"	0430	" "	4	"	"	"	0700	"	"	"	Shut down Tee deep
"	0435	" "	4	"	"	"	0705	"	"	"	"
"	0440	" "	4	"	"	"	0710	"	"	"	"
"	0445	" "	4	"	"	"	0715	"	"	"	"
"	0450	" "	4	"	"	"	0720	"	"	"	"
"	0455	" "	4	"	"	"	0725	"	"	"	fix
"	0500	" "	4	"	"	"	0730	"	"	"	"
"	0505	" "	4	"	"	"	0735	"	"	"	"
"	0510	" "	4	"	"	"	0740	"	"	"	"
"	0515	" "	4	"	"	"	0745	"	"	"	"
"	0520	" "	4	"	Down	"	0800	"	"	"	"
"	0525	" "	4	"	"	"	0805	"	"	"	"
"	0530	" "	4	"	"	"	0810	"	"	"	"
"	0535	" "	4	"	"	"	0815	"	"	"	"

Cruise George B. Kelez Carmel Bay to Pt. Sal												
Line No.		Date Time	Seismic 3 sec. Sweep & Shoot Rate		Uniboom 1/4 sec. Sweep & Shoot Rate		Course and Speed		Seismic 3 sec. Sweep & Shoot Rate			
Roll No.		Ki Power Filter H/L	Roll No.	Remarks	Line No.	Time	Roll	Ki Power Filter H/L	Roll	Remarks		
105	3/14/85	1 60	98/40	4	1	98	1020	1 60	98/40	4	Fix US 315°F	
"	0817	" "	"	End Line	1	"	1027	" "	"	" "	"	
102	0820	1 60	98/40	4	105	Start Line	320T	" 1030	" "	"	Fix	
"	0825	" "	"	"	"	"	1031	" "	"	"	END Line 98	
"	0830	" "	"	Ex	"	"	97	1034	1 60	98/40	4	Start Line 97 225°F
"	0835	" "	"	"	"	"	"	1040	" "	"	"	
"	0837	" "	"	Down	320T	"	1042	" "	"	"	Fix 70°F Key	
101	0840	1 60	98/40	4	Down	5KTS	1045	" "	"	"	SP 70°F	
"	0845	" "	"	Ex	245°F	"	1050	" "	"	"	engines	
"	0850	" "	"	"	"	"	1055	" "	"	"	"	
"	0857	" "	"	"	"	"	1100	" "	"	"	Fix	
"	0900	" "	"	"	"	"	1105	" "	"	"	"	
"	0905	" "	"	"	"	"	1106	" "	"	"	1/4 Key	
"	0910	" "	"	"	"	"	1108	" "	"	"	CTR Key	
"	0915	" "	"	"	"	"	1110	" "	"	"	"	
"	0920	" "	"	"	"	"	1115	" "	"	"	"	
"	0922	" "	"	Down on	"	"	1120	" "	"	"	"	
"	0925	" "	"	edge Key	"	"	1125	" "	"	"	"	
"	0930	" "	"	"	"	"	1130	" "	"	"	Start Roll	
"	0935	" "	"	"	"	"	1135	" "	"	"	US-34°F	
"	0940	" "	"	Start	"	"	1136	" "	"	"	Key	
"	0945	" "	"	Down	"	"	1140	" "	"	"	"	
"	0950	" "	"	ON	"	"	1145	" "	"	"	US-34°F	
"	1000	" "	"	Fix - Change	"	"	1200	" "	"	"	Fix	
"	1005	" "	"	UBR To Edge Key	"	"	1208	" "	"	"	1210	
"	1009	" "	"	Fix	"	"	1208	" "	"	"	1210	
"	1013	1 60	98/40	4	"	"	94	1213	" "	"	321°F	
"	1016	" "	"	Fix	"	"	1215	" "	"	"	"	
"					"	"	1230	" "	"	"	"	

Cruise George B. Kele Z Carmel Bay to Pt. Sal.								Cruise George B. Kele Z Carmel Bay to Pt. Sal.					
Line No.	Date Time	Seismic 3 sec. Sweep & Shot Rate		Course 1/4 sec. Sweep & Shot Rate		Seismic 3 sec. Sweep & Shot Rate		Cruise 1/4 sec. Sweep & Shot Rate		Geologic Course		Geologic Course	
		Roll No.	Ki Power	Roll No.	Ki Power	Roll No.	Ki Power	Roll No.	Ki Power	Roll No.	Ki Power	Roll No.	Ki Power
94	3/14/2355 1	60	98/40	5	321/4	85	2110	1	60	98/40	5	Fix	"
93	12:38 " "	"	"	Start Line 93	045-7	21/5	"	"	"	"	"	"	"
"	13:00 "	"	"	"	"	2125	"	"	"	"	"	"	"
"	13:30 "	"	"	"	"	2130	"	"	"	"	"	Fix	"
"	13:52 "	"	"	"	"	2132	"	"	"	"	"	End Line 85	"
90	13:55 "	"	"	Start Line 90	315-7	82	2137	"	"	"	"	Start Down	340°
"	14:00 "	"	"	"	"	2145	"	"	"	"	"	Shot Starter	"
"	14:15 "	"	"	"	"	2148	"	"	"	"	"	Auger	"
89	14:18 "	"	"	"	"	2149	"	"	"	"	"	Sparker	"
"	14:30 "	"	"	"	"	2150	"	"	"	"	"	"	"
"	15:00 "	"	"	"	"	2155	"	"	"	"	"	Start Line 81	"
"	15:15 "	"	"	End Line 89	"	81	2159	"	"	"	"	End Ball 5	"
85	19:35 1	60	98/40	5	Start Line 85	044-7	2205	"	"	"	"	Uniboom Stir	"
"	19:45 "	"	"	Shot	"	2210	"	"	"	"	"	Power	"
"	19:50 "	"	"	"	"	2215	"	"	"	"	"	"	"
"	19:56 "	"	"	"	"	2220	"	"	"	"	"	"	"
"	19:58 "	"	"	"	"	2225	"	"	"	"	"	"	"
"	20:15 "	"	"	"	"	2230	"	"	"	"	"	6 Down	225°
"	20:20 "	"	"	"	"	2235	"	"	"	"	"	"	"
"	20:25 "	"	"	"	"	2240	"	"	"	"	"	"	"
"	20:30 "	"	"	"	"	2245	"	"	"	"	"	Fix	"
"	20:35 "	"	"	"	"	2250	"	"	"	"	"	"	"
"	20:40 "	"	"	"	"	2255	"	"	"	"	"	Fix	"
"	20:45 "	"	"	"	"	2300	"	"	"	"	"	"	"
"	20:50 "	"	"	"	"	2307	"	"	"	"	"	"	"
"	20:55 "	"	"	"	"	2311	"	"	"	"	"	"	"
"	21:00 "	"	"	"	"	2315	"	"	"	"	"	Fix	"
"	21:05 "	"	"	"	"	2320	"	"	"	"	"	"	"
"	21:07 "	"	"	"	"	2325	"	"	"	"	"	"	"

Cruise George B. Kelsay L. Carmel Bay to Pt. Sal. 13										Seismic Van N. Kelsay		Cruise George B. Kelsay	
Line No.	Date Time	Seismic 3 Sec.		Uniboom 1/4 sec.		Sweep & Shot Rate		Uniboom 1/4 sec.		Sweep & Shot Rate		Course and Speed	Course and Speed
		Roll No.	Ki Power Filter H/L	Roll No.	Ki Power Filter H/L	Time Rel.	No. Ki Power Filter H/L	Time Rel.	No. Ki Power Filter H/L	Roll No.	Ki Power Filter H/L		
81	3/22 2330	1	60	Down	98/40	69	0405 1	60	98/40	6	6	0430 4.5 KTS	0430 4.5 KTS
"	2335	"	"				0410	"	"	"	"	"	"
"	2340	"	"				0415	"	"	"	"	"	"
"	2344	"	"				0420	"	"	"	"	"	"
"	2345	"	"				0425	"	"	"	"	"	"
78	2347	"	"	Down	319°T	0430	"	"	"	"	"	fix	4
"	2351	"	"			0433	"	"	"	"	"	East 220°E	4
"	2355	"	"			0436	"	"	"	"	"	312°T	4
77	2400	"	"			0440	"	"	"	"	"	"	"
"	2405	"	"			0445	"	"	"	"	"	"	"
"	0010	"	"			0450	"	"	"	"	"	"	"
"	0030	"	"			0455	"	"	"	"	"	"	"
"	0045	"	"			0455	"	"	"	"	"	"	"
"	0100	"	"			0505	"	"	"	"	"	"	"
"	0115	"	"			0510	"	"	"	"	"	"	"
"	0126	"	"			0515	"	"	"	"	"	"	"
74	0130	"	"			0520	"	"	"	"	"	"	"
"	0145	"	"			0525	"	"	"	"	"	"	"
73	0152	"	"			0530	"	"	"	"	"	"	"
"	0200	"	"			0535	"	"	"	"	"	"	"
"	0215	"	"			0540	"	"	"	"	"	"	"
"	0230	"	"			0545	"	"	"	"	"	fix	"
"	0245	"	"			0550	"	"	"	"	"	"	"
75	0259	"	"			0555	"	"	"	"	"	Shut Down	"
"	0315	"	"			317°	"	6000	"	64	"	"	4
69	0320	"	"			0605	"	"	"	"	"	End Line 65	"
"	0330	"	"			0607	"	"	"	"	"	Shut Down	317°T 4.7 KTS
"	0345	"	"			62	0611	"	"	"	"	"	"
"	0400	"	"			0615	"	"	"	"	"	"	"
						0620	"	"	"	"	"	"	"

Cruise George B. Kelecz Carmel Bay to Pt. Sal.							Cruise George B. Kelecz Carmel Bay to Pt. Sal.							
Line No.	Date	Seismic 3 Sec. Sweep & Shot Rate Roll No.	Course sweep & shot rate roll no.	Line No.	Date	Seismic 3 Sec. Sweep & Shot Rate Roll No.	Line No.	Date	Seismic 3 Sec. Sweep & Shot Rate Roll No.	Line No.	Date	Seismic 3 Sec. Sweep & Shot Rate Roll No.		
62	3/15/25	1 60	9/9/10	6	fix	3/17/25	57	3/15/25	1	60	98/40	7		
"	0630	" "	" "	"		"	0850	"	"	"	"		fix - VB	
"	0632	" "	" "	"	End line 62	"	0855	"	"	"	"		fix - VB	
61	0634	" "	" "	"	Shot down	"	0900	"	"	"	"		fix	
"	0640	" "	" "	"		"	0906	"	"	"	"		fix - VB	
"	0645	" "	" "	"		"	0915	"	"	"	"		fix	
"	0650	" "	" "	"		"	0920	"	"	"	"		fix	
"	0655	" "	" "	"	0450T 4.7kns	"	0925	"	"	"	"			
"	0700	" "	" "	"	VB system on	"	0930	"	"	"	"		fix	
"	0705	" "	" "	"		"	0935	"	"	"	"			
"	0716	" "	" "	"		"	0940	"	"	"	"			
"	0715	" "	" "	"		"	0945	"	"	"	"		fix	
"	0720	" "	" "	"		"	0947	"	"	"	"		end line 57	
"	0725	" "	" "	"		"	191	1026	2	"	"		down	
"	0730	" "	" "	"		"	1030	"	"	"	"		fix	
"	0735	" "	" "	"		"	1035	"	"	"	"			
"	0739	" "	" "	"	end line 61	3/47/25	1	1040	"	"	"			
58	0742	" "	" "	"	start line 58	3/35/25	1	1045	"	"	"		fix	
"	0752	" "	" "	"		0000T	1	1050	"	"	"			
"	0755	" "	" "	"		"	1	1052	"	"	"		end line 191	
"	0800	" "	" "	"		"	192	1055	"	"	"		start line 192	
"	0805	" "	" "	"		"	1	1100	"	"	"			
"	0810	" "	" "	"	end line 58	"	1	1105	"	"	"		7 fix - start VB	
57	0814	" "	" "	"		11	Start Line 57	225°T	1110	"	"	"		fix - VB
"	0820	" "	" "	"	VB down end roll 6	fix	"	1115	"	"	"	"	fix	150°T
"	0825	" "	" "	"		"	"	1122	"	"	"	"	fix - VB	
"	0830	" "	" "	"	7	VB on start Roll #7	fix	"	1130	"	"	"	fix	
"	0835	" "	" "	"		"	"	1137	"	"	"	"		
"	0840	" "	" "	"		"	"	225°T	192	1141	2	60	98/40	7

Cruise George B. Kelez - Carmel Bay to Pt. Sal, 17								Carmel Bay to Pt. Sal, 17								
Line No.	Date	Seismic 3 sec. Sweep & Shoot Rate	Uniboom 1/4 sec. sweep & shoot rate	Course and Speed	Line No.	Date	Seismic 3 sec. Sweep & Shoot Rate	Uniboom 1/4 sec. sweep & shoot rate	Course and Speed	Roll No.	Ki Power	F1 to HCL	Roll No.	Ki Power	F1 to HCL	
192	3/11/45	2	60	98/40	7	fix-03			193	3/12/45	2	60	98/40	8	end line 193 start line 103	
193	1200								103	1728						
193	1218								103	1735						
193	1230								1740							
	1300								1745							
	1330								1755							
	1400								1800							
	1415								1805							
	1430								1815							
	1445								1820							
	1500								1824							
	1515								104							
	1530								1830							
	1545								1835							
	1600								1840							
	1605								1843							
	1610								107	1848						
	1615															
	1620								1850							
	1625								1855							
	1630								1900							
	1635								1905							
	1645								1910							
	1700								1915							
	1705								1920							
	1710								1925							
	1715								1930							
	1720	✓	60	98/40	8				1935							
193	1725	2	60	98/40	8				1940							
									1945	✓	✓	✓	✓	✓	✓	✓
									1950	2	60	98/40	8			
									136°A							

225°T 4.5

Shut Down UB
to deep

fix

Cruise George B. Kelecz - Carmel Bay to Pt. Sal. 9								Cruise George B. Kelecz - Carmel Bay to Pt. Sal. 9							
Line No.	Date	Seismic Sweep & Shoot Rate	Uniboom 1/4 sec.	Course and Speed	Line No.	Date	Seismic Sweep & Shoot Rate	Uniboom 1/4 sec.	Course & Shoot Rate	Roll	Time	Ki Pano:	Floor H/L	Remarks	Speed
107	8/15/95	2	60	98/40	8										450 ft 4.8
	2000														
	2005														
	2010														
	2015														
	2020														
	2025														
	2030														
	2035														
	2040														
	2042														
108	2045														
	2050														
	2056														
	2100														
	2105														
	2110														
	2115														
	2116														
111	2121														
	2125														
	2130														
	2135														
	2140														
	2145														
	2150														
	2155														
	2200	✓	60	98/40	8	✓	✓	✓	start line 112	fix	2347	2352	2356	fix	2250 ft 1.5
111	2205	2	60	98/40	8	✓	✓	✓	start line 112	fix	2347	2352	2356	fix	2250 ft 1.5
									start line 115	fix	2347	2352	2356	fix	2250 ft 1.5
									start line 115	fix	2347	2352	2356	fix	2250 ft 1.5

Cruise George B. Kelez - Carmel Bay to Pt. Sal. 2j

Cruise George B. Keeler Carmel Bay to Pt. S. 22

Cruise Gearne B. Kelpz Carmel Bay 13 n. 24

卷之三

Cruise George B.

Cruise	George B.	Kelz	Carmel Bay	To R. Sal. 23
Date	Seismic	3 sec.	Uniboom $\frac{1}{4}$ sec. sweep + shoot Rate	Course and
	Seep + Shoot Rate			

Date	Seismic Sweep & Shoot Rate	Uniboom Sweep & Shoot Rate	1/4 Sec. Roll	Course No.	Speed Remarks
Time Roll	K: Power F: 1/4 or H/4				

Cruise George B. Kelez - Carmel Bay to Pt. Sal.									
Line No.	Date	Seismic Sweep & Start Rate Roll No.	Uniboom 1/4 SEC. Sweep & Shoot Rate Roll No.	Course and Speed Remarks	Line No.	Date Time N.Z.	Seismic Sweep & Shoot Rate KJ Power Filter H/L	Uniboom 1/4 SEC. Sweep & Start Rate Roll No.	Course and Speed Remarks
300	8/6/20	2 60	98/40	12	150°T 6.0 KTS	163	1940 2 60	98/40	10
	1725						1945		
	1730						1950		
	1735						1955		
	1740						2000		
	1745						2005		
	1750						2010		
	1755						2015		
	1800						2020		
	1805						2025		
	1810						2030		
	1815						2035		
	1820						2040		
	1825						2045		
	1830						2050		
	1835						2055		
	1840						2100		
	1845						2105		
	1850						2110		
	1855						162 2114		
	1900						2115		
	1905						2120		
	1910						2125		
	1915						2130		
	1920						2135		
	1925						2140		
	1928						2145		
	1930						2150		
	1935						2154		
									End Line 300
									~4.7 KTS
									225°T 4.7 KTS.

Cruise George B. Kelez to Pt. Sal 27								Carmel Bay to Pt. Sal 28							
Line No.	Date	Seismic 3 sec. Sweep + Shoot Rate	Uniboom 1/4 sec. sweep + shoot rate	Course and Speed	Date	Line No.	Seismic 3 sec. Sweep + Shoot Rate	Uniboom 1/4 sec. sweep + shoot rate	Course and Speed	Date	Line No.	Seismic 3 sec. Sweep + Shoot Rate	Uniboom 1/4 sec. sweep + shoot rate	Course and Speed	
161	3/16 2200	2	60	Roll N. 3 Kil Power Filter N/4 End line 162	10	Down	357°T	155°	0030	2	60	98°T	10	Down	
162	3/16 2202									0041					
163	3/16 2206									0045					
164	3/16 2210									0100					
165	3/16 2215									0115					
166	3/16 2220									0130					
167	3/16 2225									0145					
168	3/16 2230									0200					
169	3/16 2236									0215					
170	3/16 2240									V	0230				
171	3/16 2245									302	0245				
172	3/16 2250										0300				
173	3/16 2255									V	0245				
174	3/16 2300									157	0322				
175	3/16 2303										0330				
176	3/16 2308										0345				
177	3/16 2310										0400				
178	3/16 2315										0405				
179	3/16 2320										0410				
180	3/16 2325										0415				
181	3/16 2330										0420				
182	3/16 2332														
183	3/16 2335														
184	3/16 2340														
185	3/16 2345														
186	3/16 2350														
187	3/16 2355														
188	3/16 2400														
189	3/16 0015	V	V								V	V	V	V	

Cruise George B. Kelez Carmel Bay to Pt. Sal
30

Cruise George B. Kelez Carmel Bay to Pt. Sal. 31

SEISMIC LOG
Cruise George B. Keeler
VAN LOG
Carmel Bay to Pt. Sal

Line No.	Date Time	Seismic 3 sec. Sweep & shoot Rate Roll No.	Uniboom 1/4 sec. sweep & shoot Rate Roll No.	Course and Speed 4.5 KTS.	Line No.	Date Time	Seismic 3 sec. Sweep & shoot Rate Roll No.	Uniboom 1/4 sec. sweep & shoot Rate Roll No.	Course and Speed 4.5 KTS.
153	3/17 1625	7 60 98/40	11		146	1903	2 60 98/40	11	
	1630					1905			
	1635					1910			
	1640					1915			
	1645					1920			
	1650					1921			
	1655					1925			
153	1700			Not in forward or change of line from 151 to 152		1930			
150	1705					1935			
	1710					1940			
	1715					1945			
	1720					1950			
	1725					1955			
	1730					2000			
	1735	2				2010			
149	1740					2015			
						2020			
	1745					2025			
	1750					147	2030		
	1755					2035			
	1800					2040			
	1805					2045			
	1810					2050			
	1815					2055			
	1830					2100			
	1840					2102			
	1845					2104	2104		
	1850					2105			
	1855					2110			

Cruise George B. Keeler
Carmel Bay to Pt. Sal
Course
Sweep & Shoot Rate
Roll
No.
Remarks
Speed
4.5 KTS.

34°

roll change
depth
end line 146

END line 147

315°F

END line 149

1858

Cruise George B. Kelez Carmel Bay to Pt. Sal. 27

SEISMIC VAN LOG								Cruise George B. Keeler		Cruise George B. Keeler		Carmel Bay to Pt. Sal		Carmel Bay to Pt. Sal	
Line No.	Date	Seismic 3 sec. Sweep & Shift Rate Roll No.	Course sweep & shoot Rate Roll No.	Line No.	Date	Seismic 3 sec. Sweep & Shift Rate Roll No.	Line No.	Date	Seismic 3 sec. Sweep & Shift Rate Roll No.	Line No.	Date	Seismic 3 sec. Sweep & Shift Rate Roll No.	Line No.		
304	3/22 2145	Seismic 3 sec. Sweep & Shift Rate Roll No.	Uniboom 1/4 sec. sweep & shoot Rate Roll No.	315 97	305	Uniboom 1/4 sec. sweep & shoot Rate Roll No.	317	3/22 2145	Uniboom 1/4 sec. sweep & shoot Rate Roll No.	317	3/22 2145	Uniboom 1/4 sec. sweep & shoot Rate Roll No.	315 97		
	2120							2330							
	2125							2332							
	✓ 2130				✓ 139			2336							
143	2134	End Line 04	045 07 4.9/03		2340										
	2136	Edge 1/4 Key			2345										
	2140				2350										
	2145				2356										
	2150				318 0000										
	2155				0015										
	2158				0030										
	2200				✓ 0045										
	2206				0051										
	2210				0054										
	2215				0100										
	2220				✓ 0115										
	2225				135			0120							
	2230							0130							
	2235							0145							
	2240							0200							
	2245							0215							
	2250							✓ 0230							
	2255							307 0239							
	2300							0245							
	✓ 2303							✓ 0300							
305	2305							✓ 0306							
	2310							0308							
	✓ 2315							✓ 0315							
	2320							✓ 0330							
	305							✓ 0345							
								✓ 0400							
								✓ 0415							
								✓ 0430							
								✓ 0445							
								✓ 0500							
								✓ 0515							
								✓ 0530							
								✓ 0545							
								✓ 0600							
								✓ 0615							
								✓ 0630							
								✓ 0645							
								✓ 0700							
								✓ 0715							
								✓ 0730							
								✓ 0745							
								✓ 0800							
								✓ 0815							
								✓ 0830							
								✓ 0845							
								✓ 0900							
								✓ 0915							
								✓ 0930							
								✓ 0945							
								✓ 1000							
								✓ 1015							
								✓ 1030							
								✓ 1045							
								✓ 1100							
								✓ 1115							
								✓ 1130							
								✓ 1145							
								✓ 1200							
								✓ 1215							
								✓ 1230							
								✓ 1245							
								✓ 1300							
								✓ 1315							
								✓ 1330							
								✓ 1345							
								✓ 1350							
								✓ 1400							
								✓ 1415							
								✓ 1430							
								✓ 1445							
								✓ 1500							
								✓ 1515							
								✓ 1530							
								✓ 1545							
								✓ 1600							
								✓ 1615							
								✓ 1630							
								✓ 1645							
								✓ 1700							
								✓ 1715							
								✓ 1730							
								✓ 1745							
								✓ 1800							
								✓ 1815							
								✓ 1830							
								✓ 1845							
								✓ 1900							
								✓ 1915							
								✓ 1930							
								✓ 1945							
								✓ 2000							
								✓ 2015							
								✓ 2030							
								✓ 2045							
								✓ 2050							
								✓ 2100							
								✓ 2115							
								✓ 2130							
								✓ 2145							
								✓ 2150							
								✓ 2200							
								✓ 2215							
								✓ 2230							
								✓ 2245							
								✓ 2250							
								✓ 2255							
								✓ 2300							
								✓ 2303							
								✓ 2305							
								✓ 2310							
								✓ 2315							
								✓ 2320							
								✓ 2325							
								✓ 2330							
								✓ 2335							
								✓ 2340							
								✓ 2345							
								✓ 2350							
								✓ 2355							
								✓ 2400							
								✓ 2405							
								✓ 2410							
								✓ 2415							
								✓ 2420							
								✓ 2425							
								✓ 2430							
								✓ 2435							
								✓ 2440							
								✓ 2445							
								✓ 2450							
								✓ 2455							
								✓ 2500							
								✓ 2505							
								✓ 2510							
								✓ 2515							
								✓ 2520							
								✓ 2525							
								✓ 2530							
								✓ 2535							
								✓ 2540							
								✓ 2545							
								✓ 2550							
								✓ 2555							
								✓ 2600							
								✓ 2605							
								✓ 2610							
			</td												

Cruise Log Pt. Sa								Carmel Bay to Pt. Sa																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Seismic Part II				George B. Keeler				Carmel Bay to Pt. Sa				George B. Keeler																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Line No.	Date	Time	Course & Speed	Line No.	Date	Time	Course & Speed	Line No.	Date	Time	Course & Speed	Line No.	Date	Time	Course & Speed																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
139	3/9/40	1105	Seismic 3 sec. Sweep 4 shot Rate Roll No. Kij Power Filter H/L	140	1108	1115	1120	1125	1130	1132	1144	1150	1205	1209	1220	1231	1235	1303	1309	1330	1343	1345	1415	1435	1446	1501	1505	1537	1540	1620	1630	1700	1705	1711	1714	1715	1716	1717	1718	1719	1720	1721	1722	1723	1724	1725	1726	1727	1728	1729	1730	1731	1732	1733	1734	1735	1736	1737	1738	1739	1740	1741	1742	1743	1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754	1755	1756	1757	1758	1759	1760	1761	1762	1763	1764	1765	1766	1767	1768	1769	1770	1771	1772	1773	1774	1775	1776	1777	1778	1779	1780	1781	1782	1783	1784	1785	1786	1787	1788	1789	1790	1791	1792	1793	1794	1795	1796	1797	1798	1799	1800	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	20100	20101	20102	20103	20104	20105	20106	20107	20108	20109	20110	20111	20112	20113	20114	20115	20116	20117	20118	20119	20120	20121	20122	20123	20124	20125	20126	20127	20128	20129	20130	20131	20132	20133	20134	20135	20136	20137	20138	20139	20140	20141	20142	20143	20144	20145	20146	20147	20148	20149	20150	20151	20152	20153	20154	20155	20156	20157	20158	20159	20160	20161	20162	20163	20164	20165	20166	20167	20168	20169	20170	20171	20172	20173	20174	20175	20176	20177	20178	20179	20180	20181	20182	20183	20184	20185	20186	20187	20188	20189	20190	20191	20192	20193	20194	20195	20196	20197	20198	20199	20200	20201	20202	20203	20204	20205	20206	20207	20208	20209	20210	20211	20212	20213	20214	20215	20216	20217	20218	20219	20220	20221	20222	20223	20224	20225	20226	20227	20228	20229	20230	20231	20232	20233	20234	20235	20236	20237	20238	20239	20240	20241	20242	20243	20244	20245	20246	20247	20248	20249	20250	20251	20252	20253	20254	20255	20256	20257	20258	20259	20260	20261	20262	20263	20264	20265	20266	20267	20268	20269	20270	20271	20272	20273	20274	20275	20276	20277	20278	20279	20280	20281	20282	20283	20284	20285	20286	20287	20288	20289	20290	20291	20292	20293	20294	20295	20296	20297	20298	20299	20300	20301	20302	20303	20304	20305	20306	20307	20308	20309	20310	20311	20312	20313	20314	20315	20316	20317	20318	20319	20320	20321	20322	20323	20324	20325	20326	20327	20328	20329	20330	20331	20332	20333	20334	20335	20336	20337	20338	20339	20340	20341	20342	20343	20344	20345	20346	20347	20348	20349	20350	20351	20352	20353	20354	20355	20356	20357	20358	20359	20360	20361	20362	20363	20364	20365	20366	20367	20368	20369	20370	20371	20372	20373	20374	20375	20376	20377	20378	20379	20380	20381	20382	20383	20384	20385	20386	20387	20388	20389	20390	20391	20392	20393	20394	20395	20396	20397	20398	20399	20400	20401	20402	20403	20404	20405	20406	20407	20408	20409	20410	20411	20412	20413	20414	20415	20416	20417	20418	20419	20420	20421	20422	20423	20424	20425	20426	20427	20428	20429	20430	20431	20432	20433	20434	20435	20436	20437	20438	20439	20440	20441	20442	20443	20444	20445	20446	20447	20448	20449	20450	20451	20452	20453	20454	20455	20456	20457	20458	20459	20460	20461	20462	20463	20464	20465	20466	20467	20468	20469	20470	20471	20472	20473	20474	20475	20476	20477	20478	20479	20480	20481	20482	20483	20484	20485	20486	20487	20488	20489	20490	20491	20492	20493	20494	20495	20496	20497	20498	20499	20500	20501	20502	20503	20504	20505	20506	20507	20508	20509	20510	20511	20512	20513	20514	20515	20516	20517	20518	20519	20520	20521	20522	20523	20524	20525	20526	20527	20528	20529	20530	20531	20532	20533	20534	20535	20536	20537	20538	20539	20540	20541	20542	20543	20544	20545	20546	20547	20548	20549	20550	20551	20552	20553	20554	20555	20556	20557	20558	20559	20560	20561	20562	20563	20564	20565	20566	20567	20568	20569	20570	20571	20572	20573	20574	20575	20576	20577	20578	20579	20580	20581	20582	20583	20584	20585	20586	20587	20588	20589	20590	20591	20592	20593	20594	20595	20596	20597	20598	20599	20600	20601	20602	20603	20604	20605	20606	20607	20608	20609	20610	20611	20612	20613	20614	20615	20616	20617	20618	20619	20620	20621	20622	20623	20624	20625	20626	20627	20628	20629	20630	20631	20632	20633	20634	20635	20636	20637	20638	20639	20640	20641	20642	20643	20644	20645	20646	20647	20648	20649	20650	20651	20652	20653	20654	20655	20656	20657	20658	20659	20660	20661	20662	20663	20664	20665	20666	20667	20668	20669	20670	20671	20672	20673	20674	20675	20676	20677	20678	20679	20680	20681	20682	20683	20684	20685	20686	20687	20688	20689	20690	20691	20692	20693	20694	20695	20696	20697	20698	20699	20700	20701	20702	20703	20704	20705	20706	20707	20708	20709	20710	20711	20712	20713	20714	20715	20716	20717	20718	20719	20720	20721	20722	20723	20724	20725	20726	20727	20728	20729	20730	20731	20732	20733	20734	20735	20736	20737	20738	20739	20740	20741	20742	20743	20744	20745	20746	20747	20748	20749	20750	20751	20752	20753	20754	20755	20756	20757	20758	20759	20760	20761

Seismic Van Log
Cruise. George B. Kelez Carmel Bay to Pt. Sal¹₄₃

Seismic Georide B. Kellez		Log van Carmel Bay to Pt. 6		Course Sweep & Shoot Rate Roll No.		Dialboom 1/4 sec. Surfop & Shoot Rate Roll No.		Course Sweep & Shoot Rate Roll No.	
Date	Time	Seismic 3 sec.	Sweep & Shoot Rate	Remarks	Speed	Course	Sweep & Shoot Rate	Remarks	Speed
3/20/1311	2-1	60	60/40		225°T				
1316									
1330									
1345									
1400									
1415									
1430									
1445									
1452									
1453									
1456									
1515									
1527									
1538									
1545									
1550									
1600									
1615									
1630									
1634									
1637									
1645									
1700									
1704									
1708									
1715									
1730									
1745	V	V	V						
1800	3-1	60	76/40	2-4 fix	V				

Cruise George B. Kelecz Carmel Bay to Pt. Sal										Cruise George B. Kelecz Carmel Bay to Pt. Sal		Cruise George B. Kelecz Carmel Bay to Pt. Sal	
Line No.	Date	Seismic 3 sec. Sweep & Shoot Rate		Uniboom 1/4 sec. Course and Speed		Uniboom 1/4 sec. Sweep & Shoot Rate		Uniboom 1/4 sec. Course and Speed		Remarks	Remarks	Remarks	Remarks
		Roll N°	Kin Power Filter H/L	Roll N°	Kin Power Filter H/L	Roll N°	Kin Power Filter H/L	Roll N°	Kin Power Filter H/L				
48	328615	2-1	60	76/40	DOWN	32087-4.5	A-1	321307	2-1	90	60/40	DOWN	6.0
47	0617					2250T							
	0620												
	0630												
	0645												
	0652												
	0700												
	0715												
	0730												
	0745												
	0800												
	0807												
	0815												
	0827												
	0831												
	0845												
	0900												
	0915												
	0930												
	0945												
	0952												
	1000												
	1017												
	1030												
	1045												
	1100												
	1116	2-1	90	76/40	DOWN	2250T	D-4	2202	DOWN	2-6			